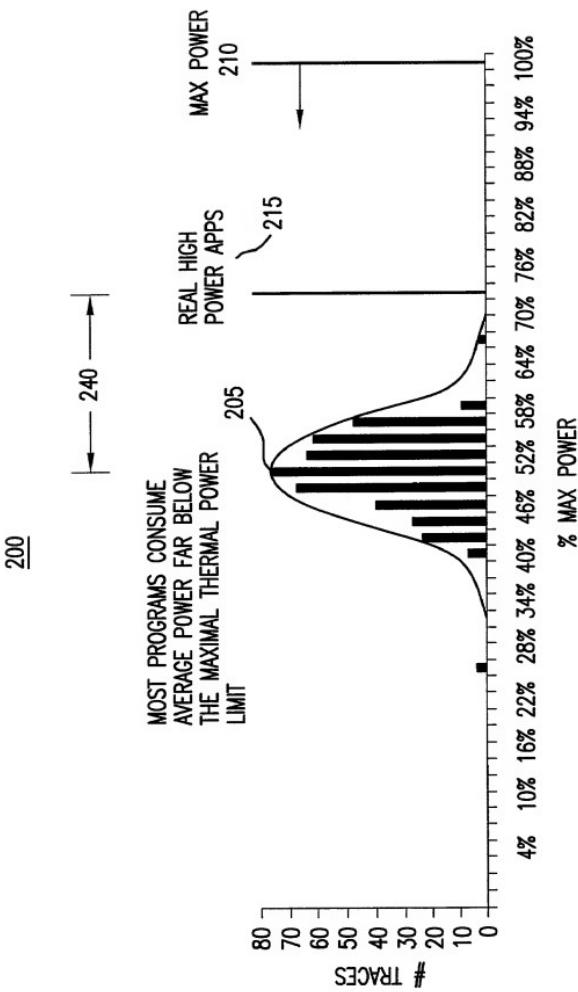


FIG.1

FIG.2



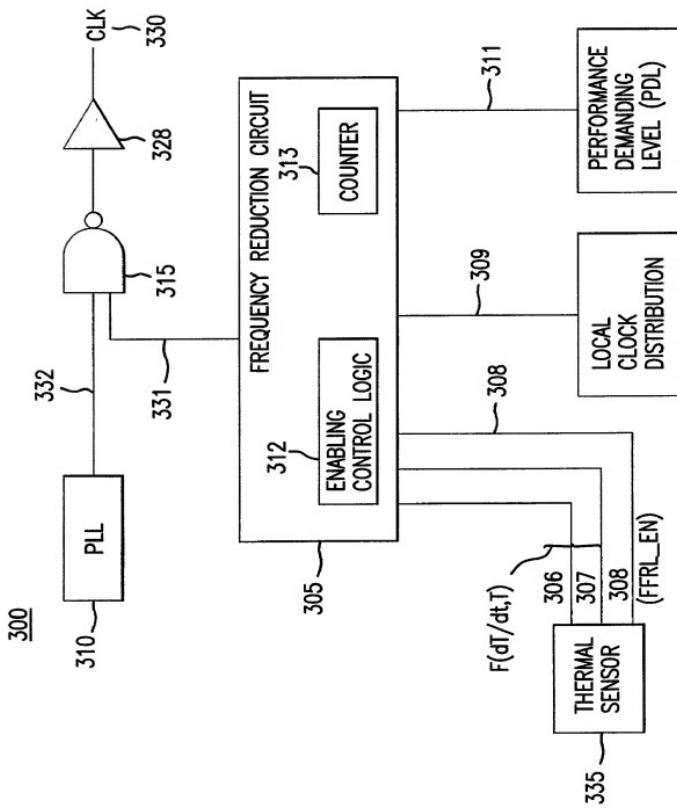


FIG.3

תְּמִסְמֵרָה, יְהוָה = אֱלֹהִים כְּבָשָׂר

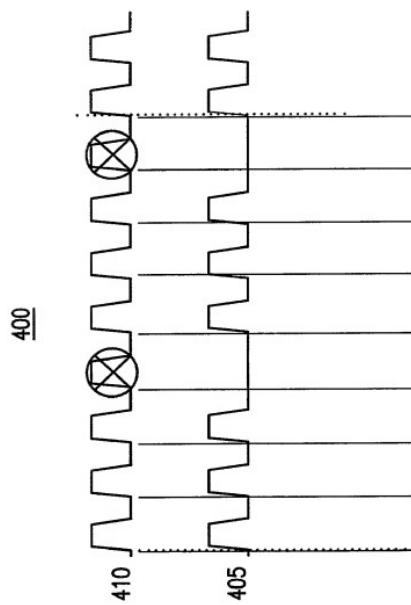


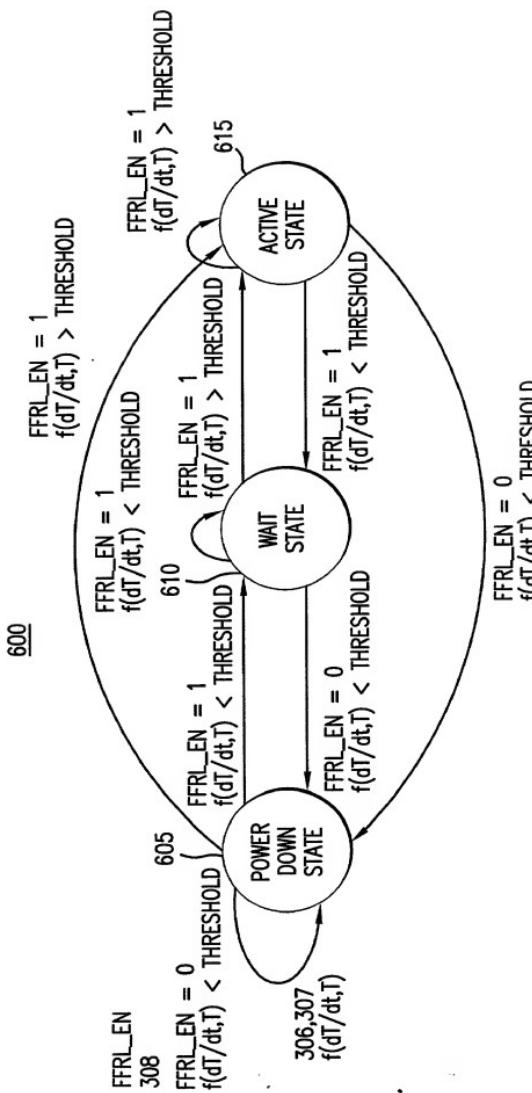
FIG.4

FIG.5

FFRL_EN	dT/dt	Thermal Temperature	Current Logic State	Prev. Logic State
0 (NOT NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	NOT CARE	POWER DOWN	POWER DOWN
0 (NOT NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	NOT CARE	POWER DOWN	WAIT
0 (NOT NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	NOT CARE	POWER DOWN	ACTIVE
1 (NEAR MAXIMAL THERMAL LIMIT)	<0.2 (SLOW RATE)	<MAX. TEMPERATURE-δt	POWER DOWN	POWER DOWN
1 (NEAR MAXIMAL THERMAL LIMIT)	>0.2 (SLOW RATE)	<MAX. TEMPERATURE-δt	WAIT	POWER DOWN
1 (NEAR MAXIMAL THERMAL LIMIT)	<0.2 (SLOW RATE)	<MAX. TEMPERATURE-δt	POWER DOWN	WAIT
1 (NEAR MAXIMAL THERMAL LIMIT)	>0.2 (SLOW RATE)	<MAX. TEMPERATURE-δt	WAIT	WAIT
1 (NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	>MAX. TEMPERATURE-δt	ACTIVE	POWER DOWN
1 (NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	>MAX. TEMPERATURE-δt	ACTIVE	WAIT
1 (NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	>MAX. TEMPERATURE-δt	ACTIVE	ACTIVE

500

LOGIC STATES DIAGRAM OF FAST FREQUENCY REDUCTION
LOGIC (FFRL)



FFRL_EN: FAST FREQUENCY REDUCTION LOGIC ENABLE SIGNAL; THRESHOLD: LOGIC STATE TRANSITE THRESHOLD;
 dT/dt : TEMPERATURE CHANGING RATE; T: THERMAL TEMPERATURE; $f'(dT/dt,T)$: FUNCTION OF dT/dt AND T

FIG. 6